

Howland

Memoranda

Bulmer

SIC 15
Howland
15-20 Sept
1966

✓ ADP
Red-t. Tropicbird

✓ ADP
Done CPH

10 Arrived Sept. 15-1800
~~Sept 16 0700 - Depart~~
5 { Depart Sept. 18-1800
5 { Arrive Sept. 19
5 { Depart Sept 20

Sept. 15 1966 Howland

Sooty Tern Recoveries

~~953-96167~~ - chick

~~96101~~ u

~~793-9547~~

✓ 773 21175 Ad

~~953-96104~~ C

~~Lesser Frigatebird~~

~~777-52241~~

15 Sept 1966

Howland

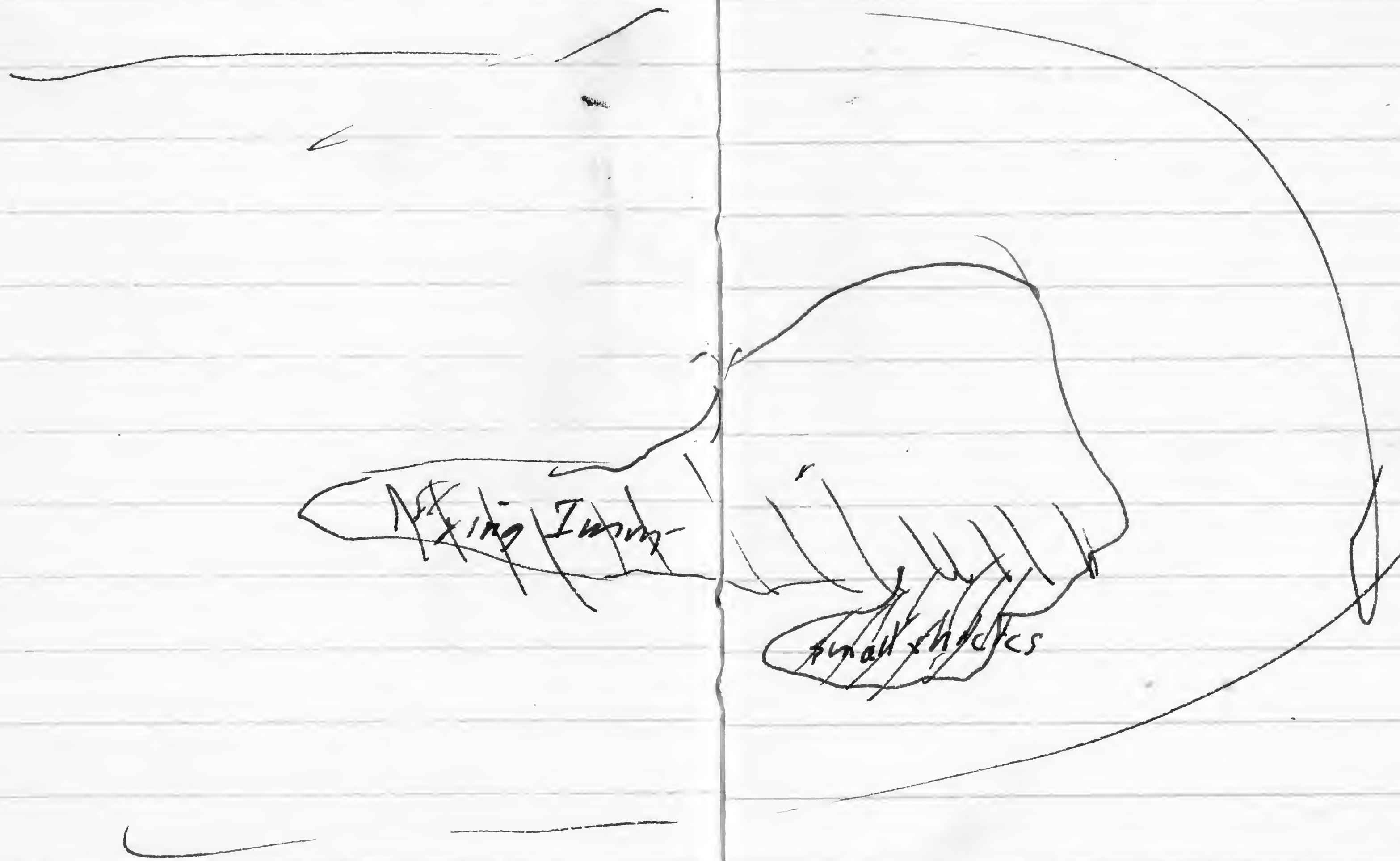
Recoveries

Lesser Frigatebird

777-52241

777 51629

Howland Sooty Tern
6 in on ant hills



15 Sept

1 Noddy in Colony

1 curlew

1 G.P

3 Turnstone

1 cat + 2 cat small Tabbles

1 noddy in Sooty colony

16 Sept Shorebird Count

Bth C	G.P.	W.T.	RT	C.N.
IIII	IIII	IIII	IIII	1
III	IIII	IIII	IIII	(6)
(II)	IIII		IIII	
	III		II	

GBT

~~IIII~~

9 getting ready to breed (swirling)
1 Green turtle

BFB Booby Hauland 16 Sept

99 2 141 Staked Chick

111	111	111
(15)	(19)	(7)
8	28	4
<hr/> 26	<hr/> 50	<hr/> 14

26
14

90
11

101
206
101

(408)

Small chick 4 birds

11	1111	1111
5	1111	1111
4	1111	1111
<hr/> 11	1111	(30)
	(87)	56
	94	15
	25	<hr/> 101
	<hr/> 206	

F. m.

BB

16 Sept

Eggs 1 egg 5. chick 2. chick 1. egg

11

1111

1

3 eggs

1111

111

1111

1

111

16 Sept Bands Received

863-53001-53500

~~53500 - 55000~~

~~Returned~~

not used

16 Sept 1966

Chicks

Sooty Tern V Banded

863-53001-53500

+ streamer

Tropic bird

Howland Is.

17 Sept

1 - empty

31 - 11

4 - "

5 - "

6 - ~~6~~ chick imm



9 - empty

8 - ~~chick~~ imm

35 - empty

7 - ~~chick~~ imm

43 - empty

44 - Imm

34 - L. Chick



37 - empty

12 - "

39 - empty

38 - "



on nothing

14 - L. chick



15 - imm

40 - L. chick

17 - imm

45 - empty

16 -



20 - imm

42 - empty

18 - "

26 - imm

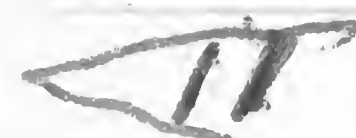
41 - empty

W on nothing

46 - empty

27 - "

24 - "



47 - egg

25 - empty

28 - "

48 - Imm

49 - imm

64 = 90'

✓ADP

Sept 17 1966
Red-tailed
Tropic bird Returns Howland

~~625-82742 - 5 chick~~

625-86205 - egg ✓

✓86215 - egg ✓

✓85740 ✓

✓85750 - L chick ✓

✓86235 - L chick ✓

645-23324 - empty - (0)

625-86213 - L. chick ✓

595-64018 ✓

-64015 ✓

-64008 ✓

625-85770 - Imm ✓

✓85755 - egg ✓

Sept. 17 1966

New bands

Red-Tailed Tropicbird

615-11403 - egg

11404 - "

11405 - Imm

11406 - Ad pr. with #16

11407 - egg

11408 - imm

11409 - egg

11410 - 5. chick

New Bands

17 Sept 1966

615-11403-11410

1914

1. 1. 1914

148

149

Sept. 17

Bands Received

737-81601-81700

81801-82000

17 Sept. 1966

737-81601-81700

81801-82000

Total 300 Bands Used

17 Sept 1966 Banding
Howland

Lesser Frigate Ad ♀ on egg

737-81861-~~81888~~ ↓

81888-~~81900~~-imm

17 Sept 1966 Howland
~~Return~~ ~~Lesser Frigate~~

~~777-5162-5 ♀ egg~~

17 Sept. 1966

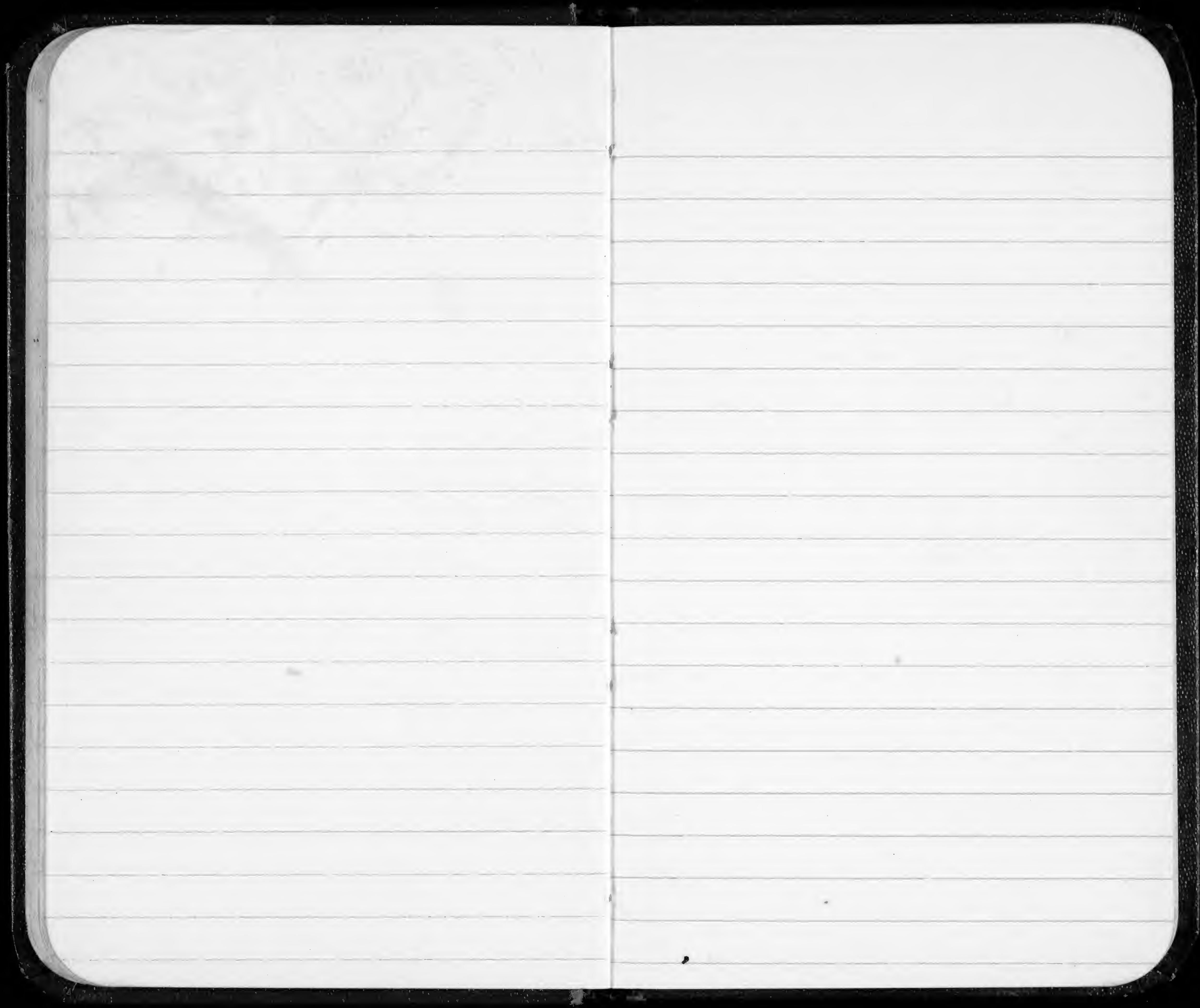
Lesser Frigate Ad ♀/egg

737-81861-81886

Lesser Frigate immatures

737-81887-81900

Total - 39 Bands Used



Pterodroma hypoleuca - 2 B. 2 BW

P. leucoptera - 2

P. cooki - 2

P. externa - 2

P. neglecta - 1

~~*P. bulleri*~~ +

P. rostrata 1

P. alba - 4

P. inexpectata - 1

Bulweria bulweria - 4

Puffinus pacificus - 2 d 2 L

P. nativitatis - 4

P. tenuirostris - 2

P. griseus - 2

P. carneipes - 2

P. puffinus - 2

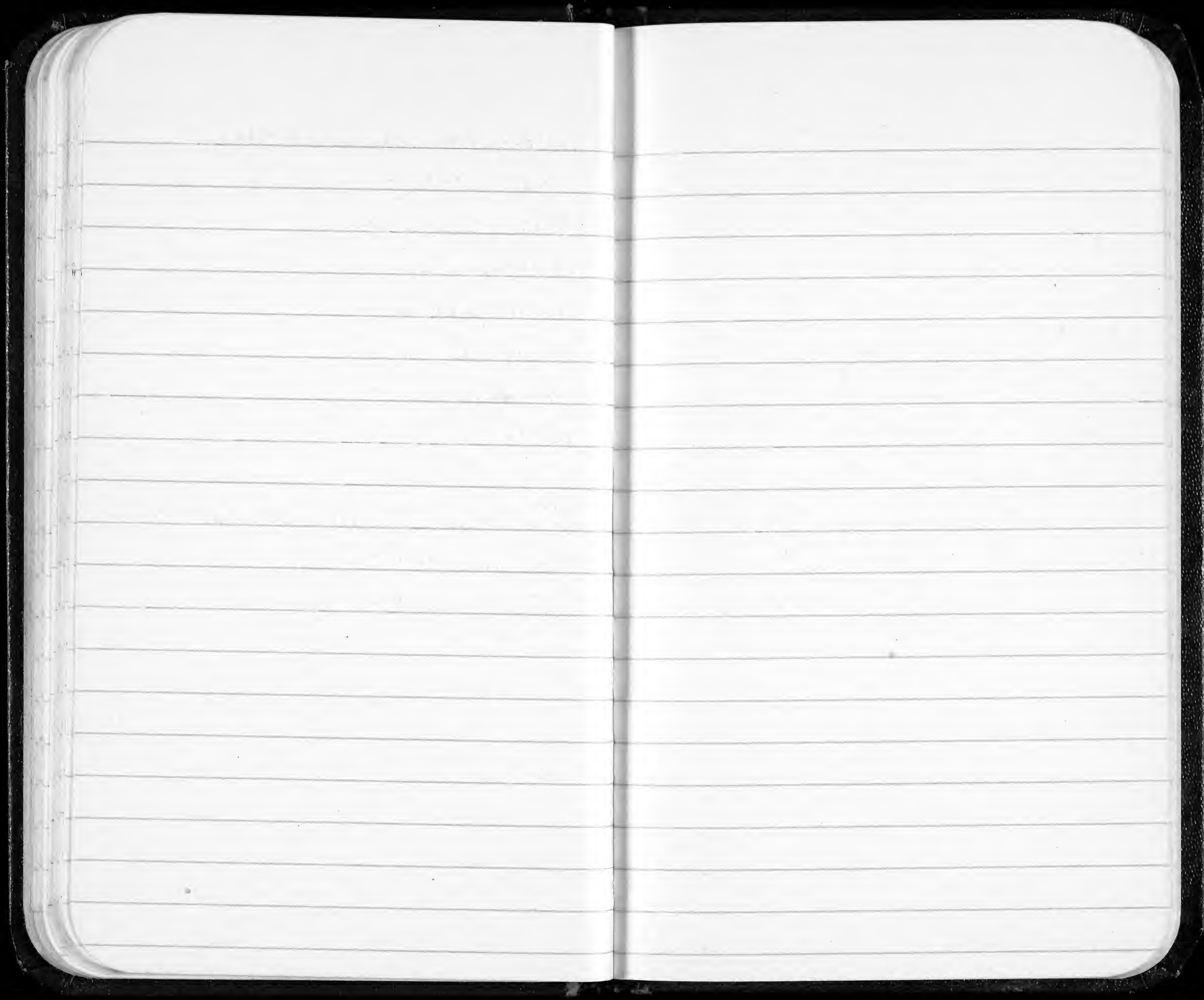
P. lherminieri - 2

P. bulleri - 1

Oceanodroma markhami - 4

O. castro - 2

O. leucorhoa







7530-222-0078

FEDERAL SUPPLY SERVICE

690 63-16-73125-2

Howland

Memo

Chandler

Sic #15

Howland

15-20 Sept 1966

✓ ADP
CDA

Done 12/21/68

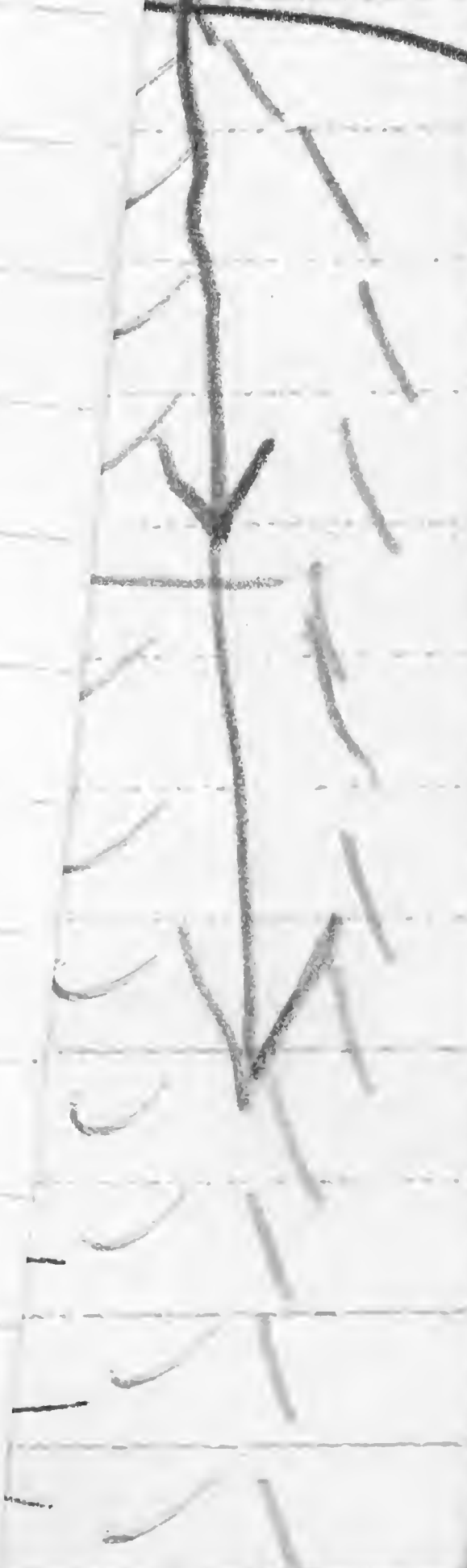
✓

15 SEPT

106

21212

21212



✓ADP

15 SEPT
1906
CHANDLER

LAND 1800

3 RT OVER CAMP

1 GP " "

grass along beach
coming back

96

ST. Ad STREAMER RECOVERY

~~953-06265~~ ✓

ST CHICK " ~~95385~~ ✓

" " ~~96185~~ ✓

" " ~~96762~~ ✓

~~Ad 02~~

CHICK " ~~01855~~ ✓

" " ~~95099~~ ✓

" " ~~95269~~ ✓

" " ~~95020~~ ✓

" " ~~96909~~ ✓

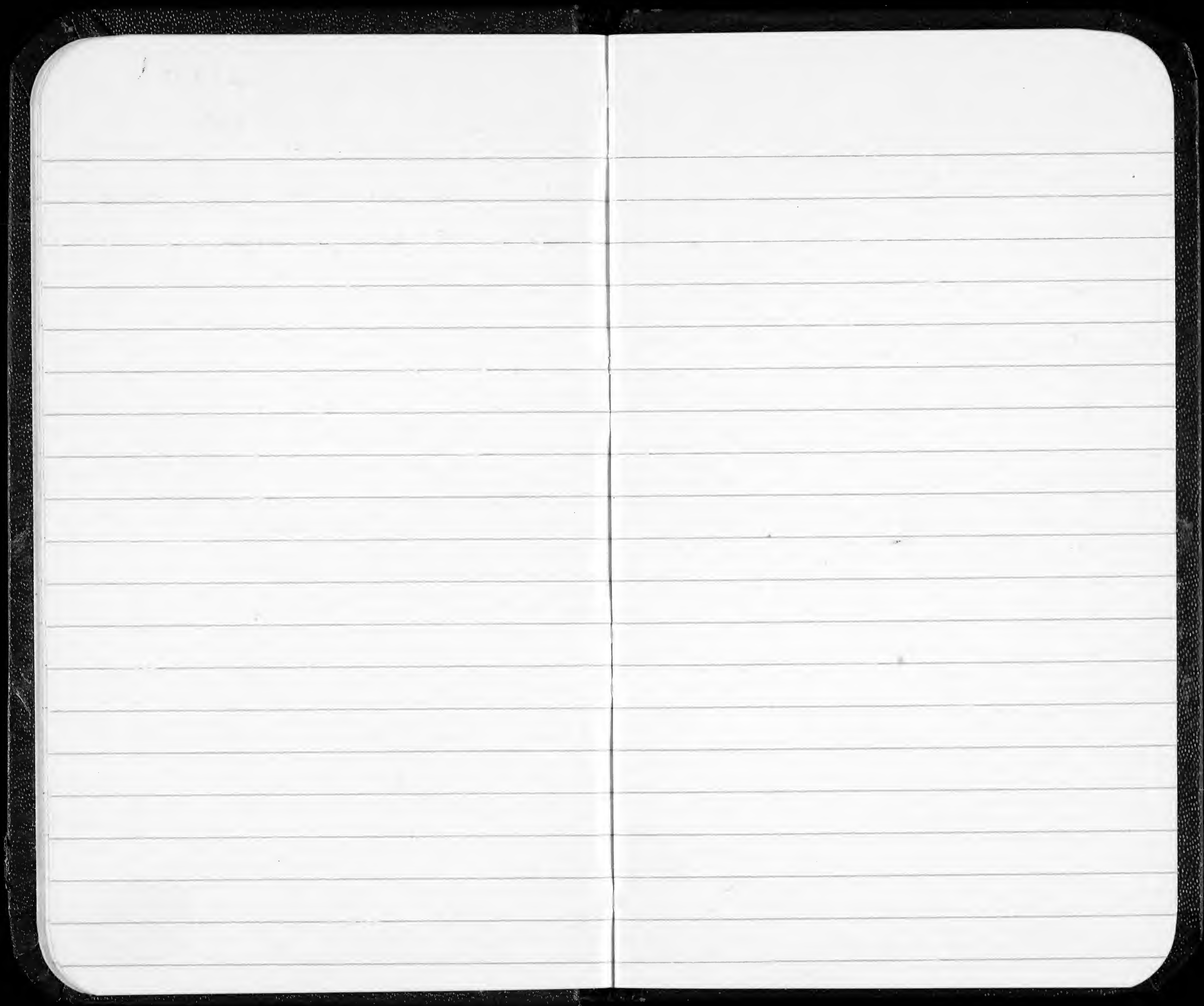
" " ~~96279~~ ✓

~~95389~~ ✓

SEP 15

66

RT 1 ON GROUND INTERVIEW
BTC 2 over camp







7530-222-0078
FEDERAL SUPPLY SERVICE

GPO 648-16-73124-2

Howland
Memoranda
File

SIC 15
Howland
15-20 Sept 1966

John H. Fitch
SIC # 15

NO ADD

~~CR~~

Done 8/16/68

BANDS ISSUED

16 September Nocturnal Banding

863-52001-52500 used

17 September Nocturnal Banding

Bands issued to Walter Bulmer

BANDS ISSUED

Page 1

NEW BANDINGS

16 September 1966

1.) 863-52001 - 52500 Imm. Sooty Terns

17 September 1966

2.) 737-81601 ♀ on egg Lesser Frigate
" "

02 ♀ on small chick

03 ♀ sitting next to chick " "

04 ♀ on small chick " "

05 ♀ on egg " "

06 ♀ on egg " "

07 ♂ on egg " "

08 ♀ with naked chick " "

09 ♂ with chick " "

10 ♀ with chick " "

11 ♀ sitting next to chick " "

12 ♂ on small chick " "

13 ♀ on egg " "

14 ♀ sitting 1 ft. from chick " "

15 ♂ on egg " "

16 ♂ on egg " "

17 ♂ on chick " "

18 ♀ on egg " "

NEW BANDING17 September (continued) 1966

737-81619	♂	with chick	Lesser Frigate	
20	♂	on egg	"	"
21	♂	on egg	"	"
22	♂	on egg	"	"
23	♂	on egg	"	"
24	♀	on egg	"	"
25	♂	on egg	"	"
26	♀	on small chick	"	"
27	♂	on egg	"	"
28	♂	on egg	"	"
29	♀	on small chick	"	"
30	♂	on egg	"	"
31	♂	on egg	"	"
32	♀	on egg	"	"
33	♂	on naked chick	"	"
34	♂	on egg	"	"
35	♀	on egg	"	"
36	♂	on egg	"	"
37	♀	on naked chick	"	"
38	♂	on egg	"	"

17 September (continued) 1966

737-81639	♂	on naked chick	Lesser Frigate
40	♀	on egg	" "
41	♂	on egg	" "
42	♀	on egg	" "
43	♂	on egg	" "
44	♀	on egg	" "
45	♀	on egg	" "
46	♂	on naked chick	" "
47	♂	on egg	" "
48	♂	on egg	" "
49	♀	on egg	" "
50	♀	on egg	" "
51	♂	on egg	" "
52	♂	with chick	" "
53	♂	on egg	" "
54	♀	on egg	" "
55	♂	on egg	" "
56	♂	on egg	" "
57	♀	on egg	" "
58	♀	on chick	" "

17 September (continued) 1966

737-81659	♂	on egg	Lesser Frigate
60	♂	on egg	" "
61	♀	on egg	" "
62	♀	on egg	" "
63	♀	on egg	" "
64	♂	on egg	" "
65	♂	on egg	" "
66	♀	on egg	" "
67	♀	with chick	" "
68	♀	on naked chick	" "
69	♂	on naked chick	" "
70	♀	on naked chick	" "
71	♂	on egg	" "
72	♂	on hatching egg	" "
73	♀	on chick	" "
74	♀	on egg	" "
75	♂	on egg	" "
76	♂	sitting near large chick	" "
77	♀	on egg	" "
78	♂	on egg	" "

Page 5

NEW BANDING17 September (continued) 1966

737-81679 ♀ on egg Lesser Frigate

80 ♀ on egg " "

81 ♂ on egg " "

82 ♀ on egg " "

83 ♀ sitting ^{chick} near " "

84 ♂ on egg " "

85 ♂ on egg " "

86 ♀ on egg " "

87 ♂ on naked chick " "

88 ♂ on egg " "

89 ♀ on egg " "

90 ♂ on egg " "

91 ♂ with chick " "

92 ♀ with naked chick " "

93 ♂ on egg " "

94 ♀ on egg " "

95 ♂ on egg " "

96 ♀ with naked chick " "

97 ♂ on egg

98 ♀ on egg

Page 6

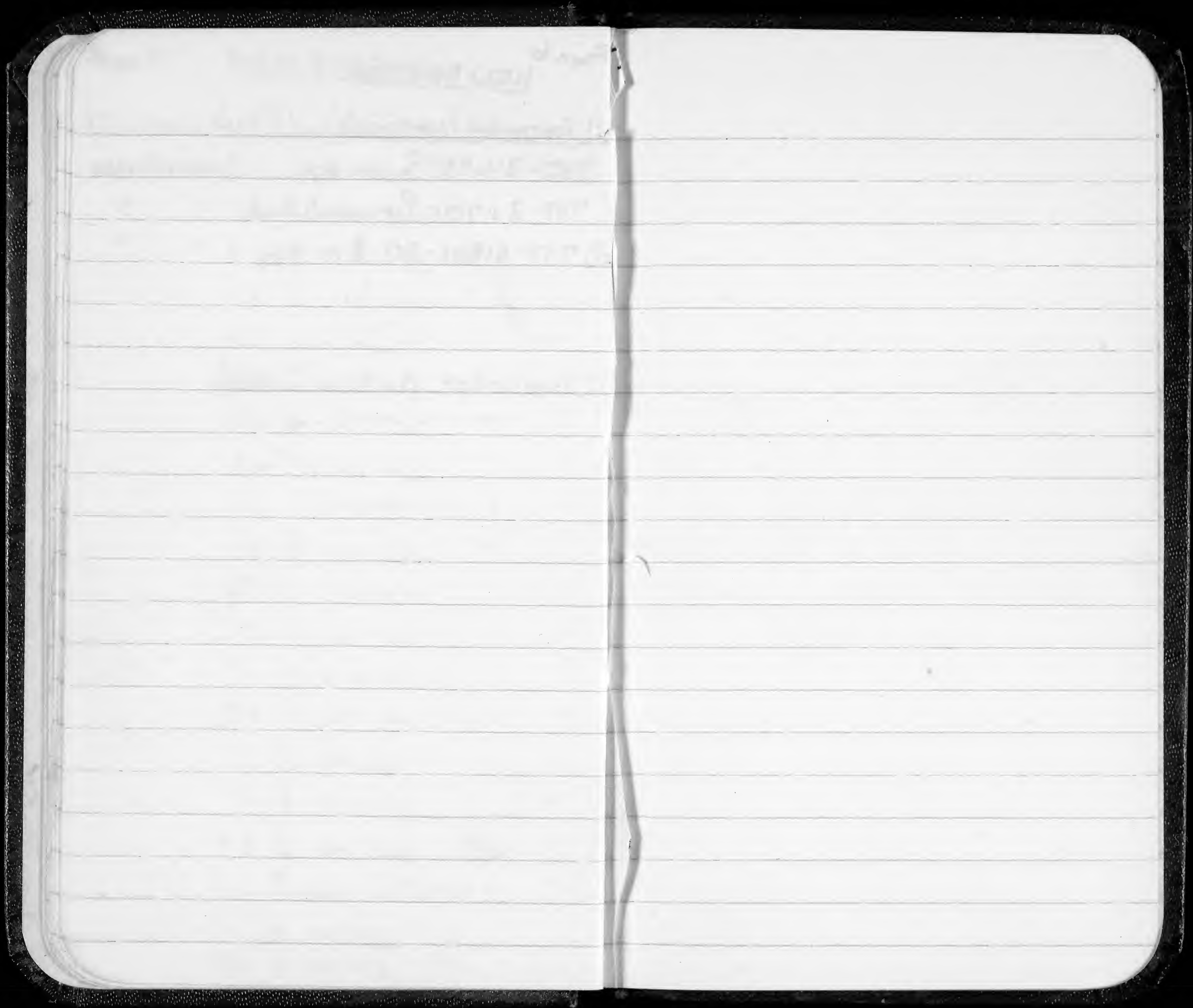
NEW BANDING17 September (continued) 1966

737-81699 ♀ on egg Lesser Frigate

737-81700 ♀ on naked chick " "

3) 737-81801-30 ♂ on egg " "

19 September Howland Island



Brown Booby

Blue-faced Booby

Sooty Terns

Bristle Thighed Curlew

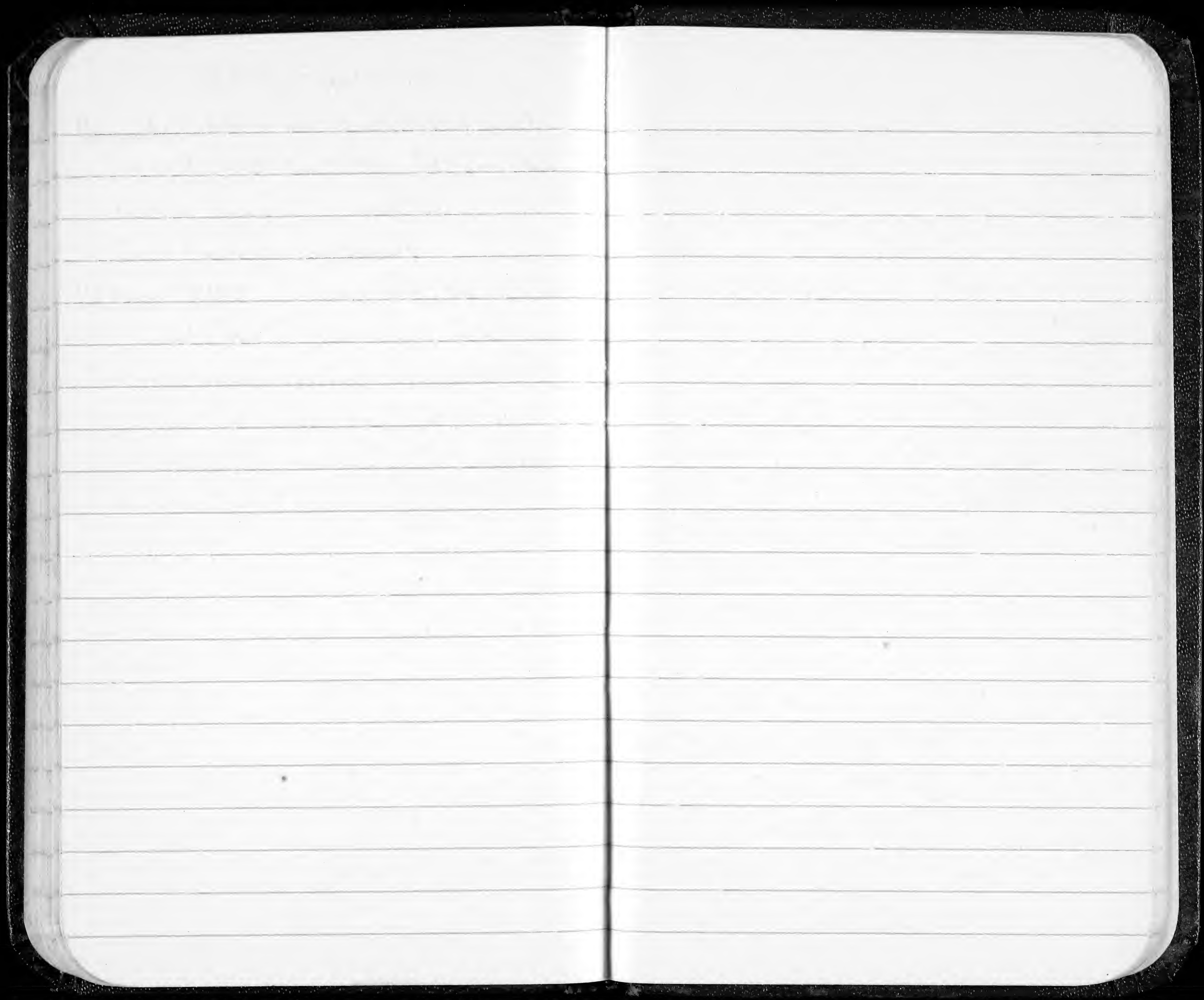
16 Sept. 66 Howland

One flushed from Tribulas - ^{Boerhavia} ~~Engross~~
type situation in N. end Island, another
flushed same area. Bob Tuxson and
Chris Thompson report sighting 3.

Lesser Frigatebirds

16 Sept. Several swirls observed both over Island and over Ocean. Main colony located in middle of island just south of Lighthouse

17 Sept. 1800 ♂ seen chasing adult Sooty Tern over beach near camp. Main colony visited tonight and a number of adults banded. - 400 banded. Estimated no. of adults on island: 8000



Mammal Survey of Howland

15 Sept. 1966 Northwest part of island -
~~cat~~ sighted at night about 9:30 P.M.

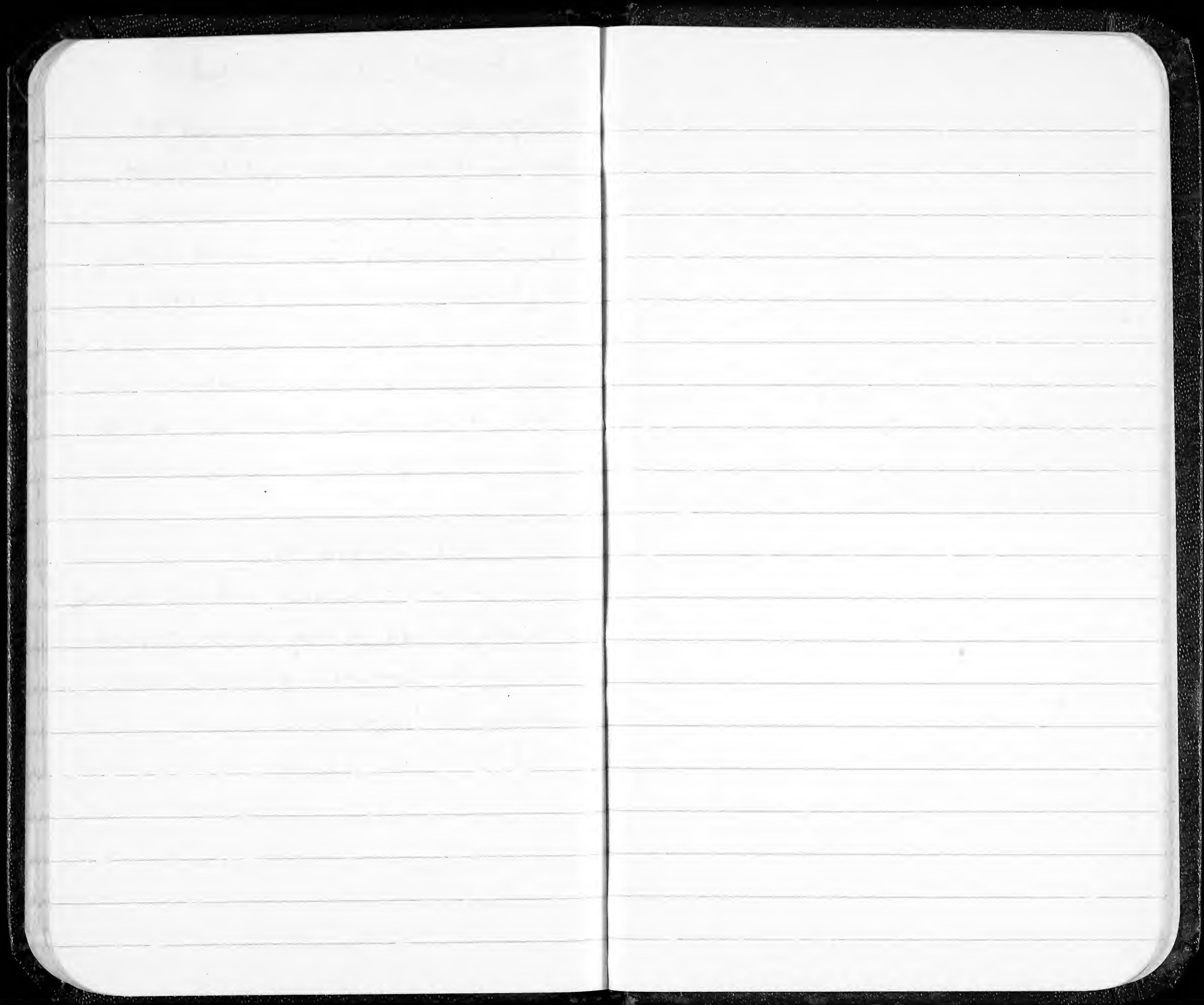
16 Sept. 1966 2 Skeletons of cats
discovered - one ~~cat~~ skull had
holes in it, other cat apparently
died a natural death. Frank
Smith sighted a mouse (Mus musculus?)
in Sooty Tern colony on North
central part of Howland. It
ran into a burrow soon after
he saw it in Tribulus-Boerhaavia
habitat.

Sept. 20 1966 Paul Woodward reports
sighting a cat this morning.
Mouse traps (10 each time) were
set out on the 17th and 19th but
with no luck

Lizard Survey Howland

15 September 1966 A number of
skinks and geckos sighted; former
mainly Abdelopus and latter mainly
Mourning Gecko. In a brief survey
of N.W. part of island a total of
52 herps (31 geckos and 21 skinks)
were sighted. 2 geckos and later 2
more were collected off Emelia Erhart
Memorial lighthouse and 1 skink off
ruins of the old town.

16 Sept. 1966 Several skinks were
collected and a number observed during
a booby survey of the Northern part of
the Island. A number of skinks were
seen on the lighthouse.



Identification - Plants

Lepturus repens: grass with epike

Digitaria pacifica: grass-hairy leaves

Fimbristylis cymosa - sedge

Fleurya ruderalis - erect herb red flower stalks

Boerhaavia tetrandra: vine like herb

Pisonia: massive trunk soft wood flowers

Portulaca: robust stems + large yellow

Sesuvium: tangled mat fleshy stems - on flowers

Tribulus: trailing herb-silky leaves, yellow

Euphorbia: low herbs

~~Ipomoea~~ Ipomoea - flowers

Messerschmidia: tree - rosette leaves

Scaevola: coarse branching shrub

Gekkonidae

Lepidodactylus lugubris : Mourning Gecko

Snout-vent: 44 mm. tail 41 mm.
Small, pale - black spots, chin shield
Granular near rim - throat pouches

Hemiphyllodactylus typus : Tree Gecko

Snout-vent: 60 mm., tail: 60 mm.
brown w. white spots, no chin shields

Gehyra mutilata : Stump-toed

Elongate chin shields, divided lamellae
transverse plates, pale w large
dark eyes.

Hemidactylus garnoti

7530-222-0078
FEDERAL SUPPLY SERVICE

GPO 643-16-73121-3